Small Business Innovation Research/Small Business Tech Transfer

High Power Wide Bandgap Engineered MMW MMIC Transceiver, Phase I

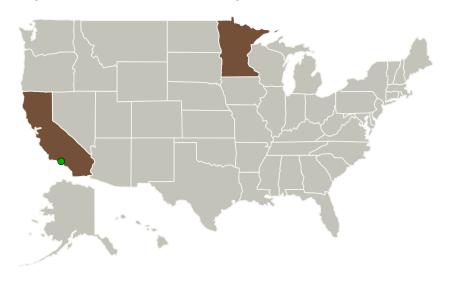


Completed Technology Project (2010 - 2010)

Project Introduction

During this phase I SBIR effort unique proven lattice and bandgap engineering techniques will be utilized to epitaxially grow InAlAs / InGaAs on GaN substrate for the design and fabrication of high power reconfigurable transceiver single MMIC.

Primary U.S. Work Locations and Key Partners



| Organizations Performing Work | Role | Туре | Location |
|---|----------------------------|--|---------------------------|
| TLC Precision Wafer Technology, Inc. | Lead Organization | Industry Minority-Owned Business, Small Disadvantaged Business (SDB) | Minneapolis, Minnesota |
| ● Jet Propulsion Laboratory(JPL) | Supporting Organization | NASA Center | Pasadena, California |

| Primary U.S. Work Locations | |
|-----------------------------|-----------|
| California | Minnesota |



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Table of Contents

| Project Introduction | 1 |
|-------------------------------|---|
| Primary U.S. Work Locations | |
| and Key Partners | 1 |
| Project Transitions | 2 |
| Organizational Responsibility | 2 |
| Project Management | 2 |
| Technology Maturity (TRL) | 2 |
| Technology Areas | 3 |
| Target Destinations | |
| | |



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Project Transitions

January 2010: Project Start



July 2010: Closed out

Closeout Summary: High Power Wide Bandgap Engineered MMW MMIC Transc eiver, Phase I Project Image

Closeout Documentation:

• Final Summary Chart Image(https://techport.nasa.gov/file/139059)

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

TLC Precision Wafer Technology, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

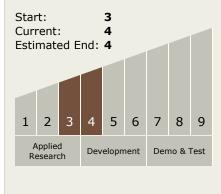
Program Manager:

Carlos Torrez

Principal Investigator:

Timothy Childs

Technology Maturity (TRL)





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Technology Areas

Primary:

Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System

